

What is claimed is:

1. A Raman probe for measuring Raman spectrum, comprising:

an exciting wave-guide path for guiding light from a light source to a sample; and

a receiving wave-guide path for guiding a light signal from said sample to a detector, wherein:

said exciting wave-guide path and said receiving wave-guide path comprise hollow pipes with their internal walls formed with a metal reflecting surface.

2. The Raman probe according to claim 1, wherein said metal reflecting surface is formed by a thin film of silver, gold, copper, platinum or aluminum.

3. The Raman probe according to claim 1 or 2, wherein said hollow wave-guide have its ends covered with a light-transmitting window having little Raman scattering.

4. The Raman probe according to claim 3, wherein the inside of said hollow wave-guide is evacuated or filled with a gas other than air.

5. The Raman probe according to any one of claims 1 to 4, wherein said hollow wave-guide are circular in cross section and have an internal diameter of 100 to 1000 μm .

6. The Raman probe according to any one of claims 1 to 5, wherein the same hollow wave-guide is used for both the exciting wave-guide path and the receiving wave-guide path .

7. The Raman probe according to any one of claims 1 to 5, wherein said exciting

wave-guide path is made of a single hollow wave-guide, and said receiving wave-guide path is made of a plurality of hollow pipes arranged around said single hollow wave-guide when seen at a sample-side end of said receiving wave-guide path .

8. A Raman spectrum measuring apparatus comprising:

a laser light source;

a spectrograph; and

a Raman probe for guiding light from said laser light source to a sample and guiding Raman scattering light from said sample to said spectrograph, wherein said Raman probe is one according to any one of claims 1 to 7.